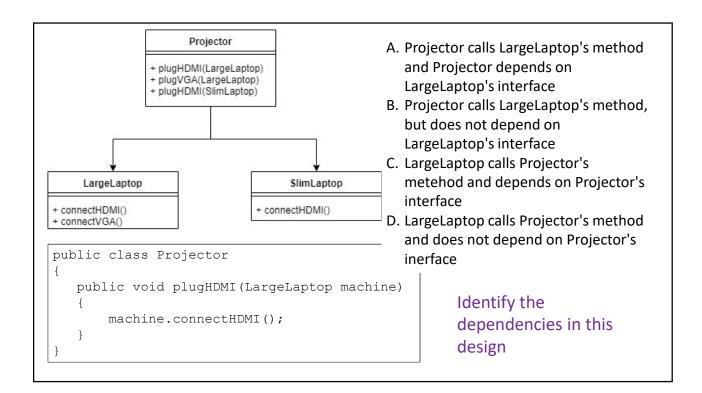
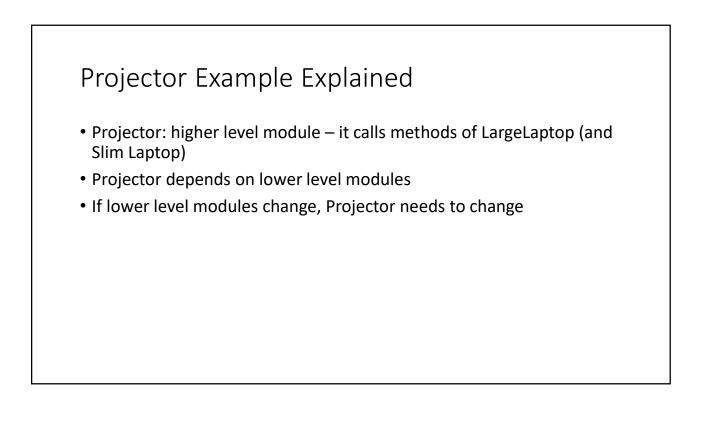
## Dependency Inversion Principle

CSCI 2300

#### **Class Dependency**

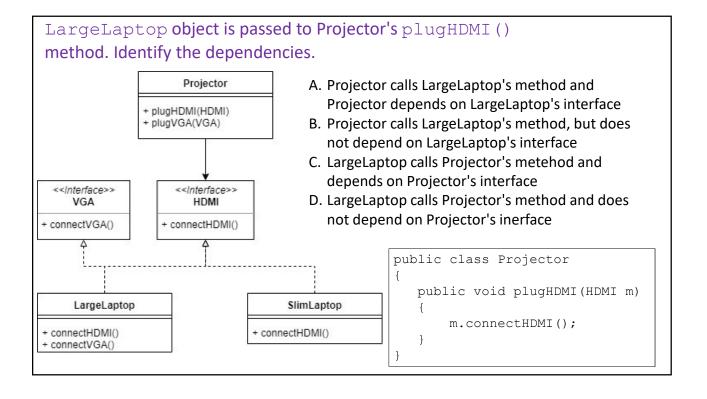
- Class A depends on class B if changes in class B may cause changes in class A.
- Example:
  - Model has public void battle(int x, int y)
  - Controller calls Model's battle method
  - Controller depends on Model
  - If we change the signature of Model's battle method, we need to make a change in controller

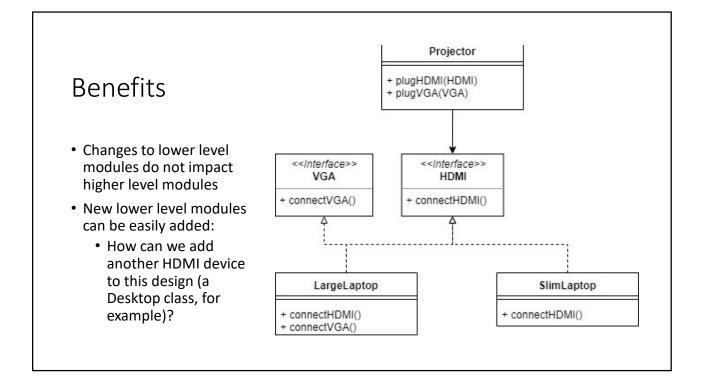




#### Dependency Inversion Principle (DIP)

- High level modules should not depend on low level modules
- Both should depend on abstraction
- Abstractions should not depend on details
- Details should depend upon abstraction





### S.O.L.I.D Design Principles

- S Single Responsibility Principle
- O Open/Closed Principle
- L Liskov Substitution Principle
- I Interface Segregation Principle
- D Dependency Inversion Principle

# Dependency Inversion Principle Exersise